

Amendments to the Specification:

Please amend the first paragraph on page 1 as follows:

The ~~invention~~ following relates to a method for the presentation of information concerning variations of the perfusion ~~as disclosed in claim 1~~, to a method for the presentation of the quality of the measuring values (signal quality) acquired during a photometric measuring process ~~as claimed in the claims 16 to 18~~, and to a device for carrying out the method ~~as disclosed in claim 21~~.

Please amend the paragraph starting at page 2 line 20 as follows:

In respect of the method this object is achieved ~~as disclosed in the characterizing part of claim 1 whereas in~~ by a method for the presentation of information concerning variations of the arterial filling with blood of organs of living beings on the user surface of a display unit, in which method the data required for the presentation is determined, using an algorithm, from measuring values produced by a non-invasive photometric measuring process for determining the arterial oxygen saturation of the blood, wherein a first perfusion index is defined as a reference value and the subsequent perfusion indices are determined as relative deviations with respect to the reference value, said relative deviations being presented as information concerning the variations of the perfusion on the user surface. In respect of the device it is achieved ~~as disclosed in claim 21~~ by a device, comprising a pulseoximeter for determining arterial O₂ saturation and for calculating perfusion index in order to determine information concerning variation of the perfusion, means for detection of interference signals, and for estimating the quality of the measuring values acquired and the information concerning a variation of the perfusion, and means for presenting the information.

Please amend the paragraph starting at page 2 line 23 as follows:

Further features of the invention are disclosed in the claims 16 to 18 and in the dependent claims. A method is disclosed of determining the quality of the measuring values (signal quality) derived by a photonic measuring process, notably in combination with a method as disclosed herein. The signal quality is determined by a single one or a combination of the following variables: saturation-independent perfusion index, transmission factor, extent of ambient disturbances (such as stray light, EM radiation, and the like), shape of the PLETH signal, and strength and/or duration of artifacts. A method is disclosed of determining the quality of the measuring values derived by a photometric measuring process, wherein the signal quality is determined by the modulation factor (AC/DC) of one or more wavelengths in combination with one or more of the following variables: saturation-independent perfusion index, transmission factor, extent of ambient disturbances, such as stray light, EM radiation, and the like, shape of the PLETH signal, strength and/or duration of artifacts. A method is disclosed of presenting the quality of the measuring values (signal quality) derived by the aforementioned photometric measuring process, wherein this information is graphically presented on the user surface by way of different coloring of icons and/or background areas, the coloring depending on said quality. In some embodiments, the icons are identical to the graphic elements used for the presentation of the perfusion. In some embodiments, the icons are independent graphic elements.